Non-Provisional Application: JDH.PAT.01 Document No.: JDH.01.001

## **CLAIMS**

What is claimed is:

1	1. A m	niter saw, comprising:
. 2	a ba	ise;
3	a pi	vot arm;
4	a sa	w assembly attached to a first end of said pivot arm; and
5	a su	pport housing connected to said base, said support housing including a pivot
6	assembly, wherein	
7		said pivot arm is attached to said pivot assembly at a second end of said pivot
8		arm; and
9		said pivot assembly enables eccentric motion of said saw assembly with respect to
10		said support housing.
1	2. The	miter saw of claim 1, wherein said pivot assembly comprises a pair of rolling
2	bearings.	
1	3. The	miter saw of claim 2, said pivot assembly further comprising:
2	a fix	ked arcuate track having said rolling bearings therein.
l	4. The	miter saw of claim 3, further comprising a pair of pivot pins connecting said rolling
2	bearings to	said pivot arm, wherein said rolling bearings are slidably engaged within said arcuate
3	track.	

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1	5.	The miter saw of claim 1, wherein said pivot assembly is selected from the group	
2	consis	sting of:	
3		pulleys;	
4		gears; and	
5		cam assemblies.	
1	6.	The miter saw of claim 1 said saw assembly further comprising:	
2		a blade; and	
3		a motor operatively connected to said blade.	
1	7.	A table saw, comprising:	
2		a base;	
3		a saw assembly pivotably mounted to said base, said saw assembly comprising:	
4		an arm, moveable relative to said base; and	
5		a pivot assembly operatively connected to said arm for moving said saw assembly	
6		in an eccentric arc in a plane perpendicular to said base.	
1	o	The table gave of claims 7 subscale said since a second to see 1 to 1 to 2 to 2	
1	8.	The table saw of claim 7, wherein said pivot assembly comprises a pair of rolling	
2	bearin	bearings.	

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I	9:	The table saw of claim 8, said pivot assembly further comprising:	
2		a fixed arcuate track having said rolling bearings therein.	
1	10.	The table saw of claim 9, further comprising a pair of pivot pins connecting said rolling	
2	bearin	gs to said arm, wherein said rolling bearings are slidably engaged within said arcuate track.	
1	11.	The table saw of claim 7, wherein said pivot assembly is selected from the group	
2	consis	sisting of:	
3		pulleys;	
4		gears; and	
5		cam assemblies.	
1	12. arm.	The table saw of claim 7, further comprising a rotatable cutting tool supported by said	
1	13.	The table saw of claim 12, said saw assembly further comprising:	
2		a blade; and	
3		a motor operatively connected to said blade.	